

Claims

1. (Currently Amended) A polyphase alternating current power distribution apparatus comprising in combination:

- A. a power distribution housing;
- B. a polyphase power input disposed in the power distribution housing;
- C. a plurality of power outputs disposed in the power distribution housing, with at least one power output being in power supply communication with one power phase provided by the polyphase power input and at least a second power output being in power supply communication with a second power phase provided by the polyphase power input;
- D. a plurality of separate power information visual display sections disposed in the power distribution housing with at least one power information visual display section being associated with at least said one power output and at least a second power information visual display section being associated with at least said second power output;

whereby said one power information visual display section may at least partially simultaneously report at the power distribution housing visible first phase information regarding said one power phase provided through said one power output and said second power information visual display section may report at the power distribution housing visible second phase information regarding said second power phase provided through said second power output.

2. (Previously Presented) The polyphase alternating current power distribution apparatus of claim 1 wherein said one power information visual display section comprises a first phase current visual display section and said second power information visual display section comprises a second phase current visual display section and wherein the apparatus also includes a plurality of current determination circuits disposed in the power distribution housing with: (i) one current determination circuit intermediate said first phase current visual display section and said one power output; and (ii) a second current determination circuit intermediate said second phase current visual display section and said second power output.

3. (Original) The polyphase alternating current power distribution apparatus of claim 2 wherein the power distribution housing is elongated and includes at least one vertical rack mounting element whereby the elongated housing may be mounted to extend vertically adjacent an equipment rack.

4. (Previously Presented) The polyphase alternating current power distribution apparatus of claim 1 wherein (i) said plurality of power outputs includes at least a third power output being in power supply communication with a third power phase provided by the polyphase power input; and (ii) said plurality of power information visual display sections includes a third power information visual display section associated with said third power output.

5. (Previously Presented) The polyphase alternating current power distribution apparatus of claim 3 wherein (i) said plurality of power outputs includes at least a third power output being in power supply communication with a third power phase provided by the polyphase power input; (ii) said plurality of power information visual display sections includes a third power information visual display section, comprising a third current visual display section, associated with said third power output; and (iii) said plurality of current determination circuits includes a third current determination circuit intermediate said third phase current visual display section and said third power output.

6. (Previously Presented) The polyphase alternating current power distribution apparatus of claim 1 wherein the polyphase power input includes a neutral line and the plurality of power information visual display sections includes a neutral information visual display section associated with the neutral line.

7. (Previously Presented) The polyphase alternating current power distribution apparatus of claim 5 wherein the polyphase power input includes a neutral line and the plurality of power information visual display sections includes a neutral information visual display section, comprising a neutral current visual display section, associated with the neutral line.

8. (Previously Presented) The polyphase alternating current power distribution apparatus of claim 1 wherein each among the plurality of power information visual display sections includes a sensory alarm, whereby a human in the vicinity of the power distribution housing may automatically receive sensory stimulation from said sensory alarm.

9. (Previously Presented) The polyphase alternating current power distribution apparatus of claim 7 wherein each among the plurality of power information visual display sections includes a sensory alarm, whereby a human in the vicinity of the power distribution housing may automatically receive sensory stimulation from said sensory alarm.

10. (Currently Amended) A polyphase alternating current power distribution apparatus comprising in combination:

- A. a power distribution housing;
 - B. a polyphase power input disposed in the power distribution housing;
 - C. a plurality of first phase power outputs disposed in the power distribution housing and connected in power supply communication with one power phase provided by the polyphase power input;
 - D. a plurality of second phase power outputs disposed in the power distribution housing and connected in power supply communication with a second power phase provided by the polyphase power input;
 - E. a plurality of separate power information visual display sections disposed in the power distribution housing with at least one power information visual display section being associated with said plurality of first phase power outputs and a second power information visual display section being associated with said plurality of second phase power outputs;
- whereby said one power information visual display section may display at the power distribution housing information regarding first phase power provided through said plurality of first power phase power outputs and said second power information visual display section may display at the power distribution housing information regarding second phase power provided through said plurality of second phase power outputs at least partially simultaneously.

11. (Previously Presented) The polyphase alternating current power distribution apparatus of claim 10 wherein the power distribution housing (i) is elongated, (ii) has an elongated power output face, with the first phase power outputs, the second phase power outputs, and the power information visual display sections disposed along said elongated power output face, and (iii) includes at least one rack mounting section, whereby the power distribution housing may be mounted adjacent an electronic equipment rack.

12. (Previously Presented) The polyphase alternating current power distribution apparatus of claim 10 also including (i) a plurality of third phase power outputs disposed in the power distribution housing in power supply communication with a third power phase provided the polyphase power input; and (ii) a third power information visual display section among the plurality of power information visual display sections and associated with the third phase power outputs.

13. (Previously Presented) The polyphase alternating current power distribution apparatus of claim 11 also including (i) a plurality of third phase power outputs disposed in the power distribution housing, disposed along the elongated power output face, in power supply communication with a third power phase provided the polyphase power input; and (ii) a third power information visual display section among the plurality of power information visual display sections and associated with the third phase power outputs.

14. (Previously Presented) The polyphase alternating current power distribution apparatus of claim 10 wherein each among each of said one and said second power information visual display sections comprise a current display section connected in collective current determining communication with the associated plurality of power outputs for the power information visual display section.

15. (Previously Presented) The polyphase alternating current power distribution apparatus of claim 10 wherein said polyphase power input includes a neutral line and wherein said plurality of power information visual display sections includes a neutral line information display section in communication with the neutral line.

16. (Previously Presented) The polyphase alternating current power distribution apparatus of claim 14 wherein said polyphase power input includes a neutral line and wherein said plurality of power information visual display sections also includes a neutral line information display section in current determining communication with the neutral line.

17. (Previously Presented) The polyphase alternating current power distribution apparatus of claim 10 wherein each of the power information visual display sections has an associated sensory alarm.

18. (Previously Presented) The polyphase alternating current power distribution apparatus of claim 16 wherein each of the power information visual display sections has an associated audible alarm.

19. (Previously Presented) A polyphase power distribution apparatus comprising in combination:

- A. a power distribution apparatus housing;
- B. a polyphase power input disposed in the power distribution apparatus housing;
- C. a plurality of phase one output ports disposed in the power distribution apparatus housing in power supply communication with phase one power provided by the polyphase power input;
- D. a plurality of phase two output ports disposed in the power distribution housing in power supply communication with phase two power provided by the polyphase power input;
- E. means for displaying information regarding phase one power provided by the plurality of phase one output ports, said phase one displaying means being disposed in the power distribution apparatus housing; and
- F. means for separately and at least partially simultaneously displaying information regarding phase two power provided by the plurality of phase two output ports, said phase two displaying means being disposed in the power distribution apparatus housing.

20. (Original) The polyphase power distribution apparatus of claim 19 wherein the power distribution apparatus housing is elongated, has an elongated side to which the phase one displaying means and phase two displaying means are secured, and includes a vertical rack mounting section, whereby the power distribution apparatus may be vertically mounted adjacent a vertical side of an electronic equipment rack.

21. (Original) The polyphase power distribution apparatus of claim 19 also including (i) a plurality of phase three output ports disposed in the power distribution apparatus housing, and (ii) means for displaying information regarding phase three power provided by the plurality of phase three output ports, said phase three displaying means being disposed in the power distribution apparatus housing.

22. (Previously presented) The polyphase power distribution apparatus of claim 19 wherein (i) the polyphase power input includes a neutral line and (ii) the polyphase power distribution apparatus also includes means for displaying information regarding the neutral line, said neutral line displaying means being disposed in the power distribution apparatus housing.

23. (Original) The polyphase power distribution apparatus of claim 21 wherein (i) the polyphase power input includes a neutral line and (ii) the polyphase power distribution apparatus also includes means for displaying information regarding the neutral line, said neutral line displaying means being disposed in the power distribution apparatus housing.

24. (Original) The polyphase power distribution apparatus of claim 19 wherein the phase one displaying means and phase two displaying means each include means for issuing a sensory alarm to a person proximate to the polyphase power distribution apparatus.

25. (Original) The polyphase power distribution apparatus of claim 21 wherein each displaying means includes means for issuing a sensory alarm to a person proximate to the polyphase power distribution apparatus.

26. (Original) The polyphase power distribution apparatus of claim 22 wherein each displaying means includes means for issuing an audible alarm to a person proximate to the polyphase power distribution apparatus.

27. (Previously Presented) The polyphase alternating current power distribution apparatus of claim 1, wherein at least two of the plurality of separate power information visual display sections disposed in the power distribution housing are physically located separately from each other.

28. (Previously Presented) The polyphase alternating current power distribution apparatus of claim 10, wherein at least two of the plurality of separate power information visual display sections disposed in the power distribution housing are disposed in different physical locations in the power distribution housing.

29. (Previously Presented) The polyphase power distribution apparatus of claim 19, wherein the means for displaying information regarding phase one power and the means for separately and at least partially simultaneously displaying information regarding phase two power are located physically separately from each other.